

**THE EFFECTIVENESS OF ADOPTING COMPUTER-BASED  
EXAMINATION IN UUM**

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(Signature) : 

Tarikh  
(Date) : 6/5/2010

# **THE EFFECTIVENESS OF ADOPTING COMPUTER-BASED EXAMINATION IN UUM**

This thesis submitted to the Graduate School in partial  
fulfillment of the requirements for the degree  
Master of Science (Information Technology)  
University Utara Malaysia

By

Fadi M.S AL\_Suhimat (802340)

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## **ABSTRACT**

Student's performance evaluation is an effective way to determine the competences of the students in education institutions. Performance Indicators such as examinations is reflecting the significant success factors of education institutions. In this research evaluation of student's performance system using electronic examination, which provides a secure and easy way to executing the assessment specifically of the UUM students. This system will be developing the traditional exam of UUM to increase the benefits of the system. Nunamaker method1991 will be taken as the development procedure of this system. Rely on evaluation process the researcher found that, the students who use computer-based exam system were so pleased and satisfied; the effectiveness of using computer-based exam in UUM is so useful. The researcher considers that, the computer-based exam in UUM as one of the education processes is very important to help both students and lecturers to get all the benefits from education.

## Dedication

---

*I humbly thank Allah Almighty, the Merciful and the Beneficent, who gave me health, thoughts and co-operative people to enable me achieve this goal...*

*I wish to dedicate this work to Holy Prophet Muhammad (Peace be upon him) and his companions who laid the foundations of Modern civilization and paved the way for social, moral, political, economical, cultural and physical revolution...*

*To my supervisor (Hazlina Haron), who always stood beside me and helped me to do my best, for the time she spent to teach me, I will still her student along my life...*

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*To (Ola Rashad) that I think I have always loved her even long before I knew her. A destiny faith or something, simply led me to her. I've looked for her a long time I've often dreamed about her, and now that she is not here, I don't see how I got along without her...*

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*Finally, I would like to say thankfulness word for the lecturers in the Information Technology Department at University Utara Malaysia (UUM...*

*Thank you UUM...*

*Fadi M.S Al\_Suhimat*

*2010*

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# **CHAPTER ONE**

## **INTRODUCTION**

### **1.0 Background**

The world is witnessing a clearly increased in the number and quality of the educational materials; this has been introduced to the students these days, whether in curriculum or teaching style. Education has become a key part in the development and the advancement of society. However, with the increasing number of students, the education process needs change and innovation to provide the necessary requirements for these people.

On the other hand, Information Technology has been the main reason for an educational development for all countries recently. Through technological tools enable the education to be easily assessable by everybody in a simple and easy way.

The advancement of information technology has led e-learning to an increase of confidence by the students, and gives them a greater opportunity for success and reading. Students prefer to using e-learning more than using traditional learning because it is flexible and convenience to use, as it has proved to has positive capable on the development of education [6].

With all the developments in the education process, the educational institution continues to rely on exams to assess students, a way that is greatly affected the outcome of the education, as a strategy and quality of education [2].

The contents of  
the thesis is for  
internal user  
only

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## **Appendix A**

### **IBM Questionnaire**

#### **Computer-Based Examination**

- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1. Overall, I am satisfied with how easy it is to use the electronic examination. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|